

Aqueous ink jet inks containing polyol/alkylene oxide condensates as cosolvents

Publication number: JP6504576 (T)

Publication date: 1994-05-26

Inventor(s):

Applicant(s):

Classification:






- international: **B41J2/01; B41M5/00; C09D11/00; B41J2/01; B41M5/00; C09D11/00; (IPC1-7): C09D11/00**

- European: C09D11/00C

Application number: JP19920508771T 19921105

Priority number(s): WO1992US09634 19921105; US19910788141 19911105

Also published as:

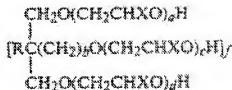
-  US5180425 (A)
-  WO9309194 (A1)
-  JP2714485 (B2)
-  EP0565709 (A1)
-  EP0565709 (B1)

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Abstract not available for JP 6504576 (T)

Abstract of corresponding document: **US 5180425 (A)**

An ink for ink jet printers which comprises an aqueous carrier medium, pigment dispersion or dye and a polyol/alkylene oxide condensate cosolvent which eliminates film formation on thermal ink jet resistor surfaces thereby eliminating non-uniformity in optical density. The cosolvent present at least 5% has a solubility in water of at least 4.5 parts in 100 parts of water at 25 DEG C. and a general formula: wherein X=H or -CH₃; R=H, -CH₃, -C₂H₅, -C₃H₇, -C₄H₉, or -CH₂O(CH₂CH₂O)_eH; b=0 or 1, a+d+f (c+e)=2-100; and f=1-6, the cosolvent being present in the amount of at least 4.5% based on the total weight of the ink jet ink composition. These inks exhibit freedom from thermal resistor film formation, have excellent decap performance, are storage stable and give images having excellent print quality.



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